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1 S US5773520/PN
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L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
 AN 1999:468133 CAPLUS

DN 131:103278
 TI Acrylic flexible light pipe of improved thermal stability
 IN Abramowicz, Mark Allan; Hallden-Abberton, Michael Paul; Ilenda, Casmir
 Stanislaus; Work, William James

PA Rohm and Haas Co., USA
 SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM G02B001-04

ICS B29C047-88

NCL 385143000

CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 73

FAN.CNT	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
1	US 5930442	A	19990727	US 1997-950020	19971014 <--
PI	A crosslinkable core mixt. for a subsequently-cured composite contains a				
AB	thermoplastic core polymer having a wt. av. mol. wt. of 2,000-250,000				
	daltons and a vinyl end-group content of <0.5 per 1000 monomer units, the				
	core mixt. comprising (a) a thermoplastic core polymer comprising (i)				
	80-99.9% of polymd. units of a C1-18 alkyl acrylate or mixts. thereof				
	with up to 50% of the C1-18 alkyl acrylate of polymd. units of a C1-18 alkyl				
	methacrylate; (ii) 0.1-18.2% of polymd. units of a functionally reactive				
	monomer, and (iii) 0-10% of polymd. units of a refractive index				
	increasing monomer selected from styrene, benzyl acrylate, benzyl methacrylate,				
	phenylethyl acrylate or phenylethyl methacrylate; (iv) 0.002-0.3%				
	residual mols. of or of decompn. products of an initiator of polymn., including				
	end groups on the thermoplastic core polymer, the initiator having a				
	half-life at 60 C. of 20 to 400 min; (v) 0.2-2.0% of residual mols. of or of				
	decompn. products of a chain transfer agent, including end groups on the				
	thermoplastic core polymer; (b) from 0.1 to 10%, based on the				
	crosslinkable core mixt. wt., of a reactive additive. It has been found				
	that improved thermal stability, as reflected in color formation, can be				
	imparted by adjusting the polymn. conditions to produce the uncured core				
	polymer of the core/clad construction with a much reduced terminal vinyl				
	content, preferably below 0.5 vinyl groups/1000 monomer units.				
ST	acrylic polymer light pipe thermal stability				
IT	Optical materials				
	(acrylic flexible light pipe of improved thermal stability)				
IT	Optical instruments				
	(light pipes, flexible; acrylic flexible light pipe of improved				
	thermal stability)				
IT	31986-96-6P, Ethyl acrylate, 3-methacryloxypropyltrimethoxysilane				
	copolymer				
	RL: DEV (Device component use); IMF (Industrial manufacture); PRP				
	(Properties); PREP (Preparation); USES (Uses)				
	(acrylic flexible light pipe of improved thermal stability)				
RE.CNT	6				
RE					
	(1) Bertelo; US 5773520 1998				
	(2) Bigley; US 5406641 1995				

- (3) Bigley; US 5485541 1996 CAPLUS
- (4) Ho; US 5555525 1996 CAPLUS
- (5) Trabert; US 5318737 1994
- (6) Zarian; US 5298327 1994